ESS

ss/Dasarahalli/WardNo-12/2021-22 Date: 20-07-2021

ST RESULTS OF PHYSICAL PROPERTIESB OF REINFORCEMENT STEEL

Client	:	Asst Executive Engineer , Shettyhalli Sub Division BBMP Bangalore
Agency	:	M/S Inchara Construction
ame of the Work	:	Improvements to roads and drains at Shettyhalli in ward no.12 Shettyhalli Sub Division
Reference	:	EE/DD/WO/28/20-21 Dated:29.06.2021
ample Identification	:	10mm,12mm,Fe 500TMT Bars
Technical Reference	:	IS 1786:2008,IS 1608:2005, IS1599:1985(Reaffirmed 2006)
Date Of Testing		20-07-2021

Sl No	Nominal Size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20% proof stress/yield stress (N/mm2)	Tensile Strenght (N/mm2)	Elongation, percent on gauge length
1	10	0.620	536	568	17
2	12	0.895	542	593	18

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For ESS ESS BUILDERS
Authorized Signatory

ESS ESS BUILDERS

GST No. 29BLYD0958AZZW

2015 (QMS/018244/0320)

Ref No: Ess/Dasarahalli/WardNo-12/2021-22 Date: 06-08-2021

TEST REPORT ON CONCRETE CUBES

Client	:	Asst Executive Engineer , Shettyhalli Sub Division BBMP Bangalore
Agency	:	M/S Inchara Construction
Name of the Work	:	Improvements to roads and drains at Shettyhalli in ward no.12 Shettyhalli Sub Division
Reference	:	EE/DD/WO/28/20-21 Dated:29.06.2021
Sample ID	:	Cement Concrete
Size of Cubes	:	150mmx150mmx150mm
Cross Sectonal Area	:	22500mm2
Technical reference	:	IS:516-1959(reaffirmed 2008)
Grade of Concrete	:	M10
Compressive Strength as on	:	28th day

Sl No	Date of Casting	Date of testing	Weight of Cube (Kg)	Failure load (KN)	Compressive Strength (N/mm2)
1	10-07-2021	06-08-2021	7.265	287.3	12.77
2	10-07-2021	06.08.2021	7.232	295.6	13.14
3	10-07-2021	06.08.2021	7.215	306.1	13.60

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GST No. 29BLYD0958A2ZW

9001-2015 (QMS/015244/0320)

Job No: Ess/Dasarahalli/WardNo-12/2021-22 Date: 12-07-2021

Test Report ON FINE Aggregates (SAND) IS 2386 (PART –I)-1963 RA2016

Client	:	Asst Executive Engineer , Shettyhalli Sub Division BBMP Bangalore
Agency	:	M/S Inchara Construction
Name of the Work	:	Improvements to roads and drains at Shettyhalli in ward no.12 Shettyhalli Sub Division
Reference	:	EE/DD/WO/28/20-21 Dated:29.06.2021
Date of Testing	:	12-07-2021
Material	:	20mm Aggregates

Total Wt. of Aggregates 5000

Is Sieve Size in mm	Weight Retained (gm0	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight passing in %	Spec. Limits
40	0	0	0	100	100
20	197	3.9	3.9	96.1	95-100
10	2742	54.8	58.8	41.2	25-55
4.75	1665	33.3	92.1	7.9	0-10

Information is furnished by the Agency

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GST No: 29BLYPG6958A1ZW

Job No: Ess/Dasarahalli/WardNo-13/2021-22 Date: 13.07.2021

Test Report

Client	:	Asst Executive Engineer , Shettyhalli Sub Division BBMP Bangalore
Agency	:	M/S Inchara Constraction
Name of the Work	:	Improvements to roads and drains at Shettyhalli in ward no.12 Shettyhalli Sub Division
Reference	:	EE/DD/WO/28/20-21 Dated:29.06.2021
Sample ID	:	Cement
Samples Supplied By	:	Agency

The Result of the tests Conducted on the Cement Sample are as follows:

Sl No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS:269-2015
1	a)Initial Setting Time	IS-4013(Part-5)	165Minutes	Not Less Than 30 Minutes
	b)Final Setting Time	IS-4031 (Part-5)	375 Minutes	Not Less Than 600 Minutes
2	Soundness	IS-4031(Part3) By the Le-Chatelier Method	1mm	Not More than 10mm
3	Standard Consistency	IS-4031(Part-4)	28.50%	

Information is furnished by the Contractor

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GST No. 29BLYD0958A2ZW

001-2015 (QMS/015244/0320)

Job No: Ess/Dasarahalli/WardNo-12/2021-22 Date: 12-07-2021

Test Report ON FINE Aggregates (SAND) IS 2386 (PART –I)-1963 RA2016

Client	:	Asst Executive Engineer , Shettyhalli Sub Division BBMP Bangalore
Agency	:	M/S Inchara Construction
Name of the Work	:	Improvements to roads and drains at Shettyhalli in ward no.12 Shettyhalli Sub Division
Reference	:	EE/DD/WO/28/20-21 Dated:29.06.2021
Date of Testing	:	12-07-2021
Material	:	Sand

Total Wt. of Aggregates 1500

Is Sieve Size in mm	Weight Retained (gm0	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight passing in %	Spec. Limits
80	0	0	0	100	100
40	449	2.99	2.99	97.01	95-100
20	8432	56.21	59.21	40.79	30-70
10	3320	22.13	81.34	18.66	10-35
4.75	2254	15.03	96.37	3.63	0-5

Information is furnished by the Agency

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Bangalore-560085

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GST No. 29BLYD0958A2ZH

9001-2015 (QMS/015244/0320)

Job No: Ess/Dasarahalli/WardNo-12/2021-22 Date: 17-08-2021

TEST REPORT ON PRECAST SLAB 100MM Thickness

Client	:	Asst Executive Engineer , Shettyhalli Sub Division BBMP Bangalore
Agency	:	M/S Inchara Construction
Name of the Work	:	Improvements to roads and drains at Shettyhalli in ward no.12 Shettyhalli Sub Division
Reference	:	EE/DD/WO/28/20-21 Dated:29.06.2021
Sample ID	:	Cement Concrete
Size of Cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500mm2
Technical reference	:	IS:516-1959 RA 2018
Material Description	:	Pre Cast Slab 10mm

ı of re m	Height of core H(mm)	Core wt(Kg)	Density of Core(kg/m3)	H/D	Correction Factor (Based on H/D)	Failure Load KN	Core Strength (N/mm2)	Correction factor for the dia (Strength of the core 1.08)	Corrected Cylinder Compression Strength (N/mm2)	Equivalent Cube Compression Strength (N/mm2)
00	80.00	0.400	2546.48	1.60	0.960	28.90	14.72	15.16	14.55	18.19
00	85.00	0.436	2612.39	1.70	0.960	27.10	13.80	14.22	13.65	17.06
00	75.00	0.356	2417.46	1.50	0.960	29.60	15.08	15.53	14.91	18.63

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GST No. 29BLYD0958A2ZW

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Job No: ESS/Shettyhalli/WardNo-12/2021-22

TEST REPORT ON GRANULAR SUBASE COURSE(GSB)

Name of Work: Improvements to roads and drains at Shettyhalli in ward no.12 Shettyhalli Sub Division

Work Location: Shettyhalli Sub Division

Client: Asst Executive Engineer, Shettyhalli Sub Division BBMP Bangalore

Name of the Agency: M/S Inchara Construction

Reference: Work order No: EE/DD/WO/28/20-21 Dated: 29.06.2021

Date of Testing: 18-07-2021

Date of Submission: 23-07-2021

IS Sieve Size in mm	Weight Retained (gms)	Cumulative Weight Retained (gms)	Cumulative % of Retained	Cumulative % of Passing	Specific Limits
53	0	0	0	100	100
45	117	117	1.4	98.6	95-100
22.4	2514	2631	30.9	69.1	60-80
11.2	1478	4109	48.3	51.7	40-60
4.75	1352	5461	64.2	35.8	25-40
2.36	998	6459	75.9	24.1	15-30
0.600	945	7404	87.0	13.0	8-22
0.075	940	8505	96.2	3.8	0-8

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be within 30 days from the date of testing

Executive

For ESS ESS BUILDERS

ESS ESS BUILDERS

GST No. 29BLYD0958A2ZW

ISO-9001:2015 (QMS/015244/0320)

Ref No: Ess/Dasarhalli/Ward no 12/2021-22

BITUMEN EXTRACTION TEST [FIELD TEST] ON BITUMINOUS CONCRETE

Name of work: : Improvements to roads and drains at Shettyhalli in ward no.12 Shettyhalli Sub Division

Client: Asst Executive Engineer, Shettyhalli Sub Division BBMP Bangalore

Name of the Agency: M/S Inchara Construction

Reference: EE/DD/WO/28/20-21 Dated: 29.06.2021

Date of Testing: 16-11-2021

Tests on Bituminous Concrete

Test No 1

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100, in %
1	500	471.5	28.5	5.7
2	500	472	28	5.6

Test No 2

Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*10 in %
1	500	472	28	5.6
2	500	472	28	5.6

Note:

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3. Any Query regarding the report must be within 30 days from the date of testing.

For ESS